

INFORMATION DISCLOSURE STATEMENT

FORM PTO - 1449

ATTORNEY DOCKET NO.: ASC-044C1

APPLICANT(S): Fitzgerald et al.

SERIAL NO.: 10/611,739

FILING DATE: July 1, 2003 GROUP: 2818

## U.S. PATENT DOCUMENTS

EXAM.		DOCUMENT NUMBER	DATE	NAME		CL	ASS	SUI CL.	ASS	FILING DATE IF APPROPRIATE
)le	Αl	2001/0003364	06/14/2001	Sugawara	et al.					
	A2	2002/0100942	08/01/2002	Fitzgerald	et al.					
	A3	2002/0043660	04/18/2002	Yamazaki	et al.					
	A4	2002/0096717	07/25/2002	Chu et al.						
	A5	2002/0123167	09/05/2002	Fitzgerald	1					
	A6	2002/0123183	09/05/2002	Fitzgerald	1					
	A7	2002/0123197	09/05/2002	Fitzgerald	l et al.					
	A8	2002/0125471	09/12/2002	Fitzgerald	l et al.					
	A9	2002/0125497	09/12/2002	Fitzgeralo	1					
	A10	2002/0140031	10/03/2002	Rim						
	A11	2002/0168864	11/14/2002	Cheng et	al.					
	A12	2003/0003679	01/02/2003	Doyle et e	al.					
	A13	2003/0013323	01/16/2003	Hammon	d et al.					
	A14	2003/0025131	02/06/2003	Lee et al.						
	A15	2003/0057439	03/27/2003	Fitzgerald	1					
	A16	4,010,045	03/01/1977	Ruehrwei	n					
	A17	4,710,788	12/01/1987	Dämbkes	et al.					
	A18	4,990,979	02/05/1991	Otto						
	A19	4,994,866	02/01/1991	Awano						
7	A20	4,997,776	03/05/1991	Harame e	t al.					
W	A21	5,013,681	05/07/1991	Godbey e	t al.					
EXAMIN	ER	Dle	/		DATE CONSIDER	ED		J	uli	1-2004

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-			II C I	PATENT DO	CUMENTS					
EXAM.		DOCUMENT NUMBER	DATE	NAME	COMENTS	CL	ASS		UB LASS	FILING DATE IF
10	A22	5,155,571	10/13/1992	Wang et al.			-	+	+	
Yh	A23	5,166,084	11/24/1992	Pfiester			$\vdash$	H	$\vdash$	
1	A24	5,177,583	01/05/1993	Endo et al.			_	H		
	A25	5,202,284	04/13/1993	Kamins et al.			<del> </del>	+	-	
	A26	5,207,864	05/04/1993	Bhat et al.				+	\ \	
	A27	5,208,182	05/04/1993	Narayan et al.	<del></del>		Н	+		
_}_	A28	5,212,110	05/18/1993	Pfiester et al.			H	+	╂	
	A29	5,221,413	06/22/1993	Brasen et al.			╁	╁	┼	
	A30	5,241,197	08/31/1993	Murakami et e	ıl.		H	+	1	
	A31	5,250,445	10/05/1993	Bean et al.			H	+	+	
	A32	5,285,086	02/08/1994	Fitzgerald			+	+	#-	<del>                                     </del>
	A33	5,291,439	03/01/1994	Kauffmann et	al.		${\mathbb H}$	+	#-	
	A34	5,298,452	03/29/1994	Meyerson			⊬	+	╫	
	A35	5,310,451	05/10/1994	Tejwani et al.			H	+	╫	
	A36	5,316,958	05/31/1994	Meyerson			$\vdash$	+	╬	
	ļ	5,346,848	09/13/1994	Grupen-Shem	ansky <i>et al</i>	_	<del>  -</del>	-	#	
	A37	5,374,564	12/20/1994	Bruel	alisky et al.	_	<b> </b>  _	-	₩	
	A38	5,399,522	03/21/1995	Ohori		_	<b> </b>			
	A39	5,413,679	05/09/1995	Godbey	<u></u>		_	+	-#	<del> </del>
	A40		06/20/1995	Selvakumar e	t al			+	-	
	A41	5,426,069	06/20/1995	Mohammad	· (41.			+	$\dashv \downarrow$	
	A42	5,426,316	08/15/1995	Brasen et al.				$\bot$	+	
	A43	5,442,205 5,461,243	10/24/1995	Ek et al.		-	_	+	+	
	A44	5,461,250	10/24/1995	Burghartz et d	.,		-	4		
W.	A45		<u> </u>	Dennard et al		₩.	$\vdash$	$\perp$	+	<del>\</del>
1 <u>///</u>	A46	5,462,883	10/31/1995	Dennard et al		<u> </u>	<u> </u>	$\perp$	4	-2004

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					FILING DATI	E: July	1, 2	003	GR	OUP.	: 2818
			U.S. I	PATENT	DOCUMENT	rs				i	
EXAM.		DOCUMENT NUMBER	DATE	NAME		(	CLAS	SS	SUE CL/	- 1	FILING DATE IF APPROPRIATE
1)//	A47	5,476,813	12/19/1995	Naruse							
· <i>V</i>	A48	5,479,033	12/26/1995	Baca et d	ıl.						
	A49	5,484,664	01/16/1996	Kitahara	et al.					$\top$	
	A50	5,523,243	06/04/1996	Mohamr	nad		П			$\dagger$	
1	A51	5,523,592	06/04/1996	Nakagav	va et al.					+	
+	A52	5,534,713	07/09/1996	Ismail et	al.					T	
_	A53	5,536,361	07/16/1996	Kondo e	t al.		П				
+	A54	5,540,785	07/30/1996	Dennard	et al.		П		1		
<del></del>	A55	5,596,527	01/21/1997	Tomioka	et al.		H	-			
_	A56	5,617,351	04/01/1997	Bertin e	al.		11				
_	A57	5,630,905	05/20/1997	Lynch et	al.		11			$\Box$	
_	A58	5,659,187	08/19/1997	Legoues	et al.		$\forall$	-			
	A59	5,683,934	11/04/1997	Candela	ria		$\parallel$				
_	A60	5,698,869	12/16/1997	Yoshimi	et al.		1		$\sqcap$		
	A61	5,714,777	02/03/1998	Ismail e	al.		1		$\sqcap$		
	A62	5,728,623	03/17/1998	Mori		-					
_	A63	5,739,567	04/14/1998	Wong							
	A64	5,759,898	06/02/1998	Ek et al.			1				
	A65	5,777,347	07/07/1998	Bartelin	k		1				
	A66	5,786,612	07/28/1998	Otani et	al.		1				
$\neg \uparrow$	A67	5,792,679	08/11/1998	Nakato			$\top$	T		+	
	A68	5,808,344	09/15/1998	Ismail e	t al.		$\top$	1		1	
_	A69	5,847,419	12/08/1998	Imai et d	ıl.		7	T	П	1	
	A70	5,877,070	03/02/1999	Goesele	et al.		T	1	$\prod$		
14	A71	5,891,769	04/06/1999	Liaw et	al.		1	1	T		
EXAMI	VER	L	<u> </u>		DATE CONS	SIDERE	D			M	ly-roop

FORM 1	<b>PTO</b> – :	1449			ATTORNEY D	OCKET NO.:	ASC-044	IC1
INFORI	MATIO	N DISCLOSU	RE STATEMI	ENT	APPLICANT(S	S): Fitzgerald	et al.	
					SERIAL NO.:	10/611,739		
					FILING DATE	: July 1, 2003	GROUP:	2818
<del> </del>	<del></del>		US	PATENT	DOCUMENT	<del></del>	<u>,,,,, ,, -</u>	
EXAM.		DOCUMENT	DATE	NAME	DOCOME.	CLASS	SUB	FILING DATE I
INIT.		NUMBER					CLASS	APPROPRIATE
Wi	A72	5,906,708	05/25/1999	Robinso	n et al.	\	6	
1	A73	5,906,951	05/25/1999	Chu et a	ıl.			
$\neg$	A74	5,912,479	06/15/1999	Mori et	al.			
$\neg$	A75	5,943,560	08/24/1999	Chang e	t al.	X	X	
	A76	5,963,817	10/05/1999	Chu et a	ıl.	//	/\	
	A77	5,966,622	10/12/1999	Levine e	et al.	<del>-   / - \</del>		\
	A78	5,998,807	12/07/1999	Lustig e	t al.	V		
	A79	6,013,134	01/11/2000	Chu et a	d.			
	A80	6,033,974	03/07/2000	Henley	et al.			
	A81	6,033,995	03/07/2000	Muller		$\top$	X	
	A82	6,058,044	05/02/2000	Sugiura	et al.			
	A83	6,059,895	05/09/2000	Chu et a	ıl.	1/ \	).	
	A84	6,074,919	06/13/2000	Gardner	et al.	1/	\	,
	A85	6,096,590	08/01/2000	Chan et	al.			
	A86	6,103,559	08/15/2000	Gardner	et al.			/
	A87	6,107,653	08/22/2000	Fitzgera	ld	$\perp$	X	
	A88	6,111,267	08/29/2000	Fischer	et al.	1/\	/	
	A89	6,117,750	09/12/2000	Bensahe	l et al.	/	/	
	A90	6,130,453	10/10/2000	Mei et a	l.			
	A91	6,133,799	10/17/2000	Favors e	et al.		\ /	
	A92	6,140,687	10/31/2000	Shimom	ura et al.		1	
	A93	6,143,636	11/07/2000	Forbes e	et al.	1/	X	
	A94	6,153,495	11/28/2000	Kub et a	ıl.	1//		
M/n	A95	6,154,475	11/28/2000	Soref et	al.			
Whi	A96	6,160,303	12/12/2000	Fattarus	0			

FORM 1	PTO – 1	449			ATTORNEY DOC	KET NO.:	ASC-044	C1			
INFORI	MATIO	N DISCLOSU	RE STATEME	ENT	APPLICANT(S): Fitzgerald et al.						
					SERIAL NO.: 10/6	511,739					
					FILING DATE: Ju	ıly 1, 2003	GROUP:	2818			
			U.S. 1	PATENT	DOCUMENTS						
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB CLASS	FILING DATE II			
Dle	A97	6,162,688	12/19/2000	Gardner	et al.	\		<u></u>			
	A98	6,184,111	02/06/2001	Henley	et al.		/				
	A99	6,191,007	02/20/2001	Matsui e	et al.			******			
	A100	6,191,432	02/20/2001	Sugiyan	na et al.	/					
	A101	6,194,722	02/27/2001	Fiorini e	et al.	/					
	A102	6,204,529	03/20/2001	Lung et	al.	/					
	A103	6,207,977	03/27/2001	Augusto	)	1	<b>\</b>				
<del>                                     </del>	A104	6,210,988	04/03/2001	Howe et	al.	1	/				
	A105	6,218,677	04/17/2001	Broekae	rt		<del>  /                                   </del>				
	A106	6,232,138	05/15/2001	Fitzgera	ld et al.		/	***			
	A107	6,235,567	05/22/2001	Huang		/	$\land$				
	A108	6,242,324	06/05/2001	Kub et a	ıl.	/					
	A109	6,249,022	06/19/2001	Lin et a	<i>I.</i>	//					
_	A110	6,251,755	06/26/2001	Furukav	va et al.	//					
	A111	6,261,929	07/17/2001	Gehrke	et al.	1					
	A112	6,266,278	07/24/2001	Harari e	t al.		/				
1	A113	6,271,551	08/07/2001	Schmitz	et al.						
	A114	6,271,726	08/07/2001	Fransis	et al.	<del>                                     </del>					
+	A115	6,291,321	09/18/2001	Fitzgera	ıld	1/					
+-	A116	6,313,016	11/06/2001	Kibbel	et al.	1/					
	A117	6,316,301	11/13/2001	Kant	· · · · · · · · · · · · · · · · · · ·	<del> </del>					
	A118	6,323,108	11/27/2001	Kub et	al.			_			
	A119	6,329,063	12/11/2001	Lo et al	•						
1	A120	6,335,546	01/01/2002	Tsuda e	t al.	1/					
W.	A 121	6,339,232	01/15/2002	Takagi		1/	-7				

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DATE CONSIDERED July - 2004

FORM !	<b>PTO</b> – 1	449			ATTORN	EY DOCK	ŒT NO.:	ASC-044	<b>4C</b> 1			
INFOR	MATIO	N DISCLOSU	RE STATEM	ENT	APPLICANT(S): Fitzgerald et al.							
					SERIAL NO.: 10/611,739							
					FILING D	ATE: Jul	y 1, 2003	GROUP	2818			
			U.S.	PATENT	DOCUMI	ENTS						
EXAM.		DOCUMENT NUMBER	DATE	NAME	···		CLASS	SUB CLASS	I .	G DATE II OPRIATE		
We	A122	6,350,993	02/26/2002	Chu et a	<i>l</i> .		\					
1	A123	6,368,733	04/09/2002	Nishinag	ga	_		/		<u>-</u>		
	A124	6,372,356	04/16/2002	Thornto	n et al.		/	1/				
	A125	6,399,970	06/04/2002	Kubo et	al.			X				
	A126	6,403,975	06/11/2002	Brunner	et al.		/					
	A127	6,407,406	06/18/2002	Tezuka								
	A128	6,420,937	07/16/2002	Akatsuk	a et al.			1				
_   _	A129	6,425,951	07/30/2002	Chu et a	I.		-					
	A130	6,429,061	08/06/2002	Rim			$\overline{}$					
	A131	6,521,041	02/18/2003	Wu et a	·			$\sqrt{}$				
	A132	6,524,935	02/25/2003	Canaper	i <i>et al</i> .							
	A133	6,555,839	04/29/2003	Fitzgera	ld							
	A134	6,573,126	06/03/2003	Cheng e	t al.							
	A135	6,583,015	06/24/2003	Fitzgera	ld <i>et al</i> .		(					
	A136	6,593,191	07/15/2003	Fitzgera	ld				05/16	/2001		
	A137	6,602,613	08/05/2003	Fitzgera	ld			X	01/17	/2001		
<del> </del>	A138	6,649,480	11/18/2003	Fitzgera	ld et al.				06/19	/2001		
100	A139	6,682,965	01/27/2004	Noguch	et al.			7	03/26	/1998		
	1		FOREI	GN PATE	NT DOCL	MENTS		<u> </u>	<u> </u>	<u> </u>		
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	FILING DATE	ABST		ENGLIS LANG (Y/N)		
Zh	B1	41 01 167	07/23/1992	DE			i	N	···	Abstract only		
$\int$	B2	0 514 018	11/19/1992	EP				N		Y		
70	В3	0 587 520	03/16/1994	EP				N		Υ		
W	B4 <	0 683 522	11/22/1995	EP			$\perp \perp$	Tuly.		Y		

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INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: ASC-044C1

APPLICANT(S): Fitzgerald et al.

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					SERIAL N	O.: 10/61	1,739		
					FILING D	ATE: July	, 1, 2003 (	GROUP: 2818	
			FOREI	GN PATEN	VT DOCU	MENTS			
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
1)//	B5	0 828 296	03/11/1998	EP				N	Y
<b>100</b>	B6	0 829 908	03/18/1998	EP			,	N	Y
	B7	0 838 858	04/29/1998	EP				N	N
_	B8	1 020 900	07/19/2000	EP	·		/	N	Y
	B9	1 174 928	01/23/2002	EP			$\sqrt{}$	N	Y
	B10	2 701 599	03/21/1995	FR				N	Abstract only
	BII	2 342 777	04/19/2000	GB				Y	Y
	B12	4-307974	10/30/1992	JP		/		N	Abstract only
	B13	5-166724	07/02/1993	JP				N	Abstract only
	B14	6-177046	06/24/1994	JP				N	Abstract only
	B15	6-244112	09/02/1994	JР			1	Y	Y
	B16	6-252046	09/09/1994	JP				Y	Y
	B17	7-94420	04/07/1995	JР		/		N	Abstract only
$\top$	B18	7-106446	04/21/1995	JP				N	Abstract only
1	B19	7-240372	09/12/1995	JP				N	Abstract only
	B20	10-270685	10/09/1998	JP		1		N	Y
	B21	11-233744	08/27/1999	JP				N	Abstract only
	B22	2000-021783	01/21/2000	JP			V	N	Y
1	B23	2000-031491	01/28/2000	JP				N	Y
1	B24	2001-319935	11/16/2001	JP				N	Y
M	B25	2002-076334	03/15/2002	JP	1	1		N	Y
1/	B26	2002-164520	06/07/2002	JP				N	Y
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FORM 1	PTO -	1449			ATTORN	EY DOCK	ET NO.: A	ASC-044C1	<del></del>			
INFOR	MATIC	ON DISCLOSU	RE STATEM	IENT	APPLICANT(S): Fitzgerald et al.							
					SERIAL NO.: 10/611,739							
					FILING D	ATE: Jul	y 1, 2003 C	GROUP: 2818	<u></u>			
			FOREI	GN PATE	NT DOCU	<b>IMENTS</b>						
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG			
		NONDER		CODE		CLASS	DALL	l ONE!	(Y/N)			
Vle	B27	2002-289533	10/04/2002	JP	1			N	Y			
1	B28	98/59365	12/30/1998	wo		<u> </u>		N	Y			
	B29	99/53539	10/21/1999	wo			/	N	Y			
	B30	00/48239	08/17/2000	wo				íN	Y			
	B31	00/54338	09/14/2000	wo		<u> </u>	X	N	Y			
	B32	01/022482	03/29/2001	wo		/		N	Y			
	B33	01/54202	07/26/2001	wo				N	Y			
	B34	01/93338	12/06/2001	wo				N	Y			
	B35	01/99169	12/27/2001	wo		/		N	Y			
	B36	02/13262	02/14/2002	wo				N	Y			
	B37	02/15244	02/21/2002	wo				N	Y			
	B38	02/27783	04/04/2002	wo				N	Y			
	B39	02/47168	06/13/2002	wo			X	N	Y			
	B40	02/071488	09/12/2002	wo				N	Y			
	B41	02/071491	09/12/2002	wo				N	Y			
30	B42	02/071495	09/12/2002	wo		1		N	Y			
Ku	B43	02/082514	10/17/2002	wo	1			N	Y			
			OTHER A	RT, JOUR	NAL ART	ICLES, E	ETC.		<del>-</del>			
EXAM. INIT.	ОТІ	IER DOCUMEN	TS: (Including	g Author, Ti	tle, Date, Re	levant Pag	es, Place of	Publication)				
Dh	CI	Armstrong et al. Transistors," <u>IEI</u>										
1	C2	C2 Armstrong, "Technology for SiGe Heterostructure-Based CMOS Devices," PhD Thesis, Massachusetts Institute of Technology, 1999, pp. 1-154.										
	C3											
	C4	Barradas et al., " channels for HM							content SiGe			
The	C5	Borenstein <i>et al.</i> the 1999 12th IE 1999), pp. 205-2	EE Internation									
EXAMIN	NER	1)le			DATE C	ONSIDER	ed Ju	ly - 20	04			

FORM P	TO -	1449	ATTORNEY DOCKET NO.: ASC-044C1					
INFORM	ATIC	ON DISCLOSURE STATEMENT	APPLICANT(S): Fitzgerald et al.					
			SERIAL NO.: 10/611,739					
			FILING DATE: July 1, 2003 GROUP: 2818					
		OTHER ART, JOUR	NAL ARTICLES, ETC.					
EXAM. INIT.	ОТН	IER DOCUMENTS: (Including Author, Ti	tle, Date, Relevant Pages, Place of Publication)					
Dli	C6	Bouillon et al., "Search for the optimal chanstudy," IEEE (1996), pp. 21.2.1-21.2.4.	nel architecture for 0.18/0.12 µm bulk CMOS experimental					
1	C7	Bruel et al., "®SMART CUT: A Promising International SOI Conference (October 1995	New SOI Material Technology," Proceedings of the 1995 IEEE ), pp. 178-179.					
	C8	Bruel, "Silicon on Insulator Material Techno 1201-1202.	logy," Electronic Letters, Vol. 13, No. 14 (July 6, 1995), pp.					
	C9	Vol. 84, No. 10 (November 15, 1998), pp. 55						
	C10	Technology," <u>IEEE Transactions on Microw</u> 100-104.	Capacitors in Standard Multilevel Interconnect Silicon ave Theory and Techniques, Vol. 44, No. 1 (January 1996), pp.					
	C11	devices with strained epitaxial films," Interna-	Ge layer on an insulator in fabricating high-speed semiconductor ational Business Machines Corporation, USA (2002), abstract.					
	C12	Carlin et al., "High Efficiency GaAs-on-Si Solar Cells with High Voc using Graded Gesi Buffers," IEEE - 2000 (2000), pp. 1006-1011.						
	C13	(January 1991), pp. 202-204.	Heterostructures," Journal of the Electrochemical Society, No. 1					
	C14	(SGOI) Substrates," IEEE Electron Device L	nt in Strained-Si n-MOSFETs Fabricated on SiGe-on-Insulator <u>Letters</u> , Vol. 22, No. 7 (July 2001), pp. 321-323.					
	C15	Cheng et al., "Relaxed Silicon-Germanium of Materials, Vol. 30, No. 12 (2001), pp. L37-L	on Insulator Substrate by Layer Transfer," <u>Journal of Electronic</u> 39.					
	C16	Cullis et al., "Growth ripples upon strained S Journal of Vacuum Science and Technology	SiGe epitaxial layers on Si and misfit dislocation interactions,"  A, Vol. 12, No. 4 (July/August 1994), pp. 1924-1931.					
	C17	substrates," Journal of Vacuum Science and	stability of strained Si n- and p-MOSFETs on SiGe virtual Technology B, Vol. 19, No. 6 (Nov/Dec 2001), pp. 2268-2279.					
	C18	Currie et al., "Controlling Threading Disloci Chemical-Mechanical Polishing," Applied P	ation Densities in Ge on Si Using Graded SiGe Layers and Physics Letters, Vol. 72, Issue 14 (April 6, 1998), pp. 1718-1720.					
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